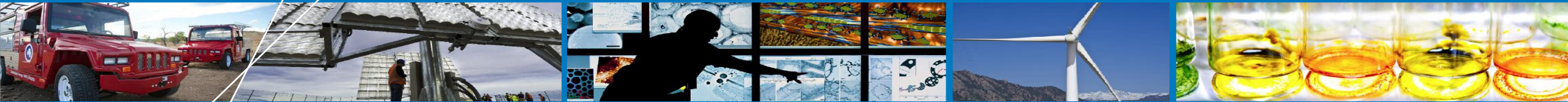


# Results of Longwave and Shortwave Calibrations for Three Years



**2018 ASR Science Team Meeting**

by

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# SGP Longwave BORCAL Summary (2015 - 2017)

Time period	2015		2016		2017		2015 - 2017	
Total number of Calibrations	86		89		90		265	
Total number of individual Instruments calibrated	66		72		72		143	
Average Uncertainty (W/m <sup>2</sup> )	2.27		2.34		2.57		2.39	
Highest Uncertainty (W/m <sup>2</sup> )	2.46		2.81		2.70		2.81	
Lowest Uncertainty (W/m <sup>2</sup> )	1.69		1.50		2.50		1.50	
Average number successful calibrations per session	11.3		11.7		11.8		11.6	
Average length of time for BORCAL-LW to complete (days)	30		32		31		31	
Shortest BORCAL-LW event (days)	17		16		23		16	
Longest BORCAL-LW event (days)	44		49		44		49	
Range of K values	max	min	max	min	max	min	max	min
Current range of K0 values for all successfully calibrated instruments	3.660	-9.647	3.090	-13.689	-0.500	-15.973	3.660	-15.973
Current range of K1 values for all successfully calibrated instruments	0.346	0.209	0.376	0.194	0.376	0.221	0.376	0.194
Current range of K2 values for all successfully calibrated instruments	1.025	0.994	1.035	0.996	1.041	1.002	1.041	0.994
Current range of K3 values for all successfully calibrated instruments	-2.423	-5.404	-2.759	-5.834	-3.011	-6.433	-2.423	-6.433

# SGP Shortwave BORCAL Summary (2015 - 2017)

Time Period	2015-01	2015-02	2016-01	2016-02	2017-01	2017-02	2015 - 2017
Total Instruments	109	89	113	85	114	103	613
Calibration system Instruments	14	14	15	14	14	14	85
Test instruments to be deployed to sites or used as spares	95	75	98	71	100	89	528
NIPs	28	27	28	18	29	29	159
PSPs	63	48	66	52	65	53	347
8-48	18	14	18	15	20	20	105